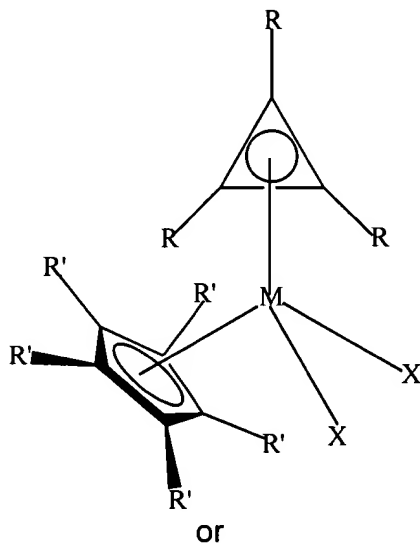


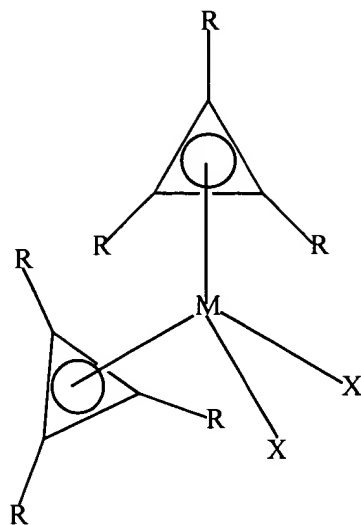
Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

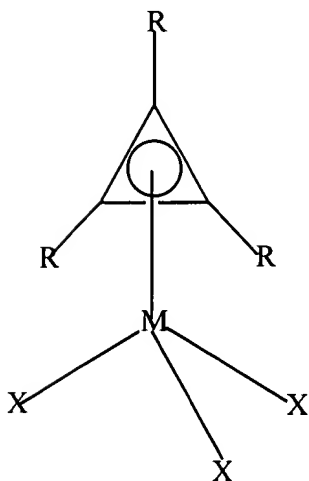
Listing of Claims:

1. (Currently Amended) An olefin polymerization catalyst comprising a cationic complex that results from contact of a neutral transition metal compound to an activator composition wherein the neutral transition metal compound is represented by the following formula:





or



wherein each R and R' is independently hydrogen, hydrocarbyl, substituted-hydrocarbyl, halocarbyl, substituted-halocarbyl, hydrocarbyl-substituted

organometalloid, halocarbyl-substituted organometalloid, disubstituted boron, disubstituted pnictogen, substituted chalcogen or halogen, and when R or R' is a bidentate radical it forms a C₄ to C₂₀ ring system with another R or R' to give a saturated or unsaturated polycyclic cyclopropenyl ligand or it forms a bridge between one cyclopropenyl ring and another cyclopropenyl ring or an X radical; ~~one X is a pi-bonded cyclopentadienyl ligand or cyclopentadienyl group-containing ligand and another X is an amido or an imido radical and any remaining X radical is a halide, hydride, hydrocarbyl, substituted hydrocarbyl, halocarbyl, substituted halocarbyl, and hydrocarbyl and halocarbyl-substituted organometalloid, substituted pnictogen, or substituted chalcogen~~ each X radical is independently a halide, hydride, hydrocarbyl, substituted hydrocarbyl, halocarbyl, substituted halocarbyl, and hydrocarbyl- and halocarbyl-substituted organometalloid, substituted pnictogen, or substituted chalcogen, wherein at one X is optionally be a pi-bonded cyclopentadienyl or a cyclopentadienyl-derived ligand and one X is optionally an amido or an imido radical; and M is a Group 6 or 10 transition metal.

2-6 (Cancelled)

7. (Previously amended) The olefin polymerization catalyst of claim 1 wherein M molybdenum.

8. (Previously amended) The olefin polymerization catalyst of claim 1 wherein the neutral transition metal compound is cyclopropenyl cyclopentadienyl molybdenum dichloride.

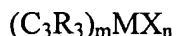
9-12 (Cancelled)

13. (Previously amended) The olefin polymerization catalyst of claim 1 wherein M is palladium.

14. (Previously amended) The olefin polymerization catalyst of claim 1 wherein the neutral transition metal compound is cyclopropenyl palladium trichloride.

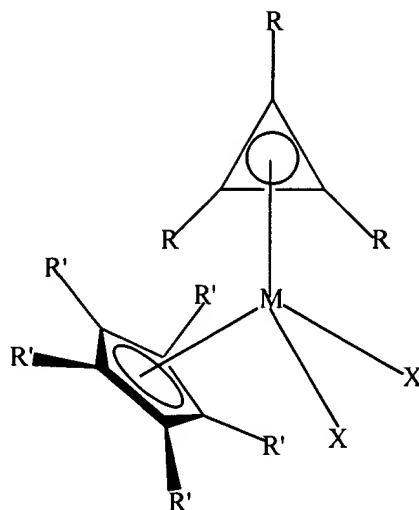
15-27 (Cancelled)

28. (Currently amended) A method of polymerizing olefins, comprising contacting one or more polymerizable olefins under ~~polymerizing~~ polymerization conditions with a polymerization catalyst comprising a cationic complex that results from exposure of a neutral transition metal compound to an activator composition wherein the neutral transition metal compound may be represented by the following formula:

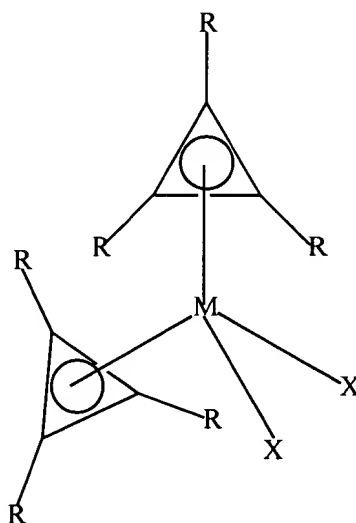


wherein (C_3R_3) is a cyclopropenyl ring and each R is ~~a monodentate or a bidentate radical~~ and is independently hydrogen, hydrocarbyl, substituted-hydrocarbyl, halocarbyl, substituted-halocarbyl, hydrocarbyl-substituted organometalloid, halocarbyl-substituted organometalloid, disubstituted boron, disubstituted pnictogen, substituted chalcogen or halogen, and when R is a bidentate radical it ~~may optionally forms~~ a C_4 to C_{20} ring system to give a saturated or unsaturated polycyclic cyclopropenyl ligand or it may form a bridge between one (C_3R_3) and another (C_3R_3) or an X radical; each X radical is independently a halide, hydride, hydrocarbyl, substituted hydrocarbyl, halocarbyl, substituted halocarbyl, and hydrocarbyl- and halocarbyl-substituted organometalloid, substituted pnictogen, or substituted chalcogen, wherein at one X is optionally ~~be and one X may be~~ a pi-bonded cyclopentadienyl or a cyclopentadienyl-derived ligand and one X is optionally ~~may be~~ an amido or an imido radical; M is a Group 3, 4, 5, 6, 8, or 10 transition metal, and m and n are integers of 1 or greater and m+n satisfies the valence of M.

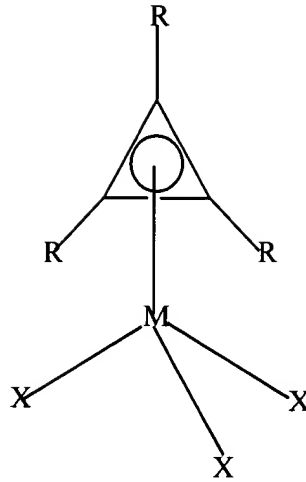
29. (Currently Amended) The method of polymerizing olefins of claim 28, wherein the neutral transition metal compound ~~may be~~ is represented by the following formula:



30. (Currently Amended) The method of polymerizing olefins of claim 28, wherein the neutral transition metal compound ~~may be~~ is represented by the following formula:



31. (Currently amended) The method of polymerizing olefins of claim 28, wherein the neutral transition metal compound ~~may be~~ is represented by the following formula:



32-33 (Cancelled)